Product Specifications

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Model SB1039
South Bend 14" x 40" 16 Speed Lathe 220V

Product Dimensions

Weight	2420 lbs.
Width (side-to-side) x Depth (front-to-back) x Height	80-3/4 x 32-1/8 x 54-3/8 in.
Footprint (Length x Width)	80-3/4 x 19-1/2 in.

Shipping Dimensions

Type	Wood Slat Crate
Content	Machine
Weight	2684 lbs.
Length x Width x Height	90 x 40 x 69 in.

Electrical

Power Requirement	220V, 3-Phase, 60 Hz
Full-Load Current Rating	14.3A
Minimum Circuit Size	20A
Switch	Magnetic with Thermal Protection
Switch Voltage	220V
Plug Included	No
Recommended Plug/Outlet Type	NEMA 15-20

Motors

Main

Type	TEFC Induction
Horsepower	5HP at 3450 RPM, 2.5 HP at 1725 RPM
Voltage	220V
Phase	3-Phase
Amps	14A/10A
Speed	3450/1720 RPM
Cycle	60 Hz
Number of Speeds	Variable
Power Transfer	V-Belt & Gear
Bearings	Shielded and Permanently Sealed

Coolant

Type	TEFC Induction
Horsepower	1/8 HP
Voltage	220V
Phase	3-Phase
Amps	0.4A
Cycle	60 Hz
Number of Speeds	1
Power Transfer	Direct Drive
Bearings	Shielded and Permanently Sealed

Main Specifications

Operation Info

Swing Over Bed	14.17 in.
Distance Between Centers	40 in.
Swing Over Cross Slide	8.66 in.
Swing Over Saddle	13.75 in.
Swing Over Gap	20.94 in.
Maximum Tool Bit Size	0.75 in.
Compound Travel	4 in.
Carriage Travel	36.5 in.
Cross Slide Travel	7 in.

Headstock Info

Spindle Bore	1.653 in.
Spindle Taper	MT#5
Number of Spindle Speeds	16
Spindle Speeds	50 — 2570 RPM
Spindle Type	D1-5 Camlock
Spindle Bearings	NTN Tapered Roller
Spindle Length	20.87 in.
Spindle Length with 3-Jaw Chuck	28.74 in.
Spindle Length with 4-Jaw Chuck	30.71 in.
Spindle Nose to Gap	6.46 in.

Tailstock Info

Tailstock Quill Travel	4-3/8 in.
Tailstock Taper	MT#3
Tailstock Barrel Diameter	1.968 in.

Threading Info

Number of Longitudinal Feeds	17
Range of Longitudinal Feeds	0.002 — 0.067 in.
Number of Cross Feeds	17
Range of Cross Feeds	0.001 — 0.034 in.
Number of Inch Threads	45
Range of Inch Threads	2 — 72 TPI
Number of Metric Threads	39
Range of Metric Threads	0.2 — 14 mm
Number of Modular Pitches	18
Range of Modular Pitches	0.3 — 3.5 MP
Number of Diametral Pitches	21
Range of Diametral Pitches	8 — 44 DP

Dimensions

Bed Width	9 in.
Leadscrew Diameter	1-1/8 in.
Leadscrew TPI	4
Leadscrew Length	59 in.
Steady Rest Capacity	5/16 — 4-5/16 in.
Follow Rest Capacity	5/8 — 3-1/8 in.
Faceplate Size	12 in.
Feed Rod Diameter	3/4 in.
Floor to Center Height	42-5/8 in.
Height With Leveling Jacks	54-3/8 in.

Construction

Base	Cast Iron
Headstock	Cast Iron
Headstock Gears	Flame Hardened Steel
Bed	Induction Hardened and Ground Cast Iron
Stand	Cast Iron
Paint	Urethane

Other

Country Of Origin	Taiwan (Some Components Made in USA and Japan)
Warranty	1 Year
Serial Number Location	ID Label on Front of Headstock
Assembly Time	Approximately 2 Hours
Sound Rating	76 dB

Features

Allen Bradley Electrical Components
Meehanite Casting, Signature South Bend Three V-Way Bed
Safety Chuck Guard with Micro-Switch Shut-Off
Halogen Work Light (24V/70W)
4-Way Tool Post
Complete Coolant System
Micrometer Carriage Stop
Threading Dial Indicator
NTN Japanese Spindle Bearing
Full Length Splash Guard
Front Removable Sliding Chip Tray
Headstock Gears Run in an Oil Bath
Completely Enclosed Universal Gearbox for Cutting Inch, Metric, Modular and Diametral Pitches
Jog Button and Emergency Stop

Included Accessories

10 in. 4-Jaw Independent Chuck D1-5
8 in. 3-Jaw Scroll Chuck (Mounted to 8 in. D1-5 Back Plate)
12 in. Faceplate D1-5
Follow Rest
Steady Rest with Roller Bearing Tips
#5 to #3 Morse Taper Spindle Sleeve
Two Morse Taper #3 Dead Centers (1 Carbon Steel and 1 Carbide-Tipped)
Six Leveling Pads
Service Tools
Tool Box
USA Written Manual